

DESCRIPTIVE ABSTRACT

The object of the invention is a process for the qualitative and quantitative detection of damage in DNA,

5 comprising the following different steps:

- preparation of DNA,
- damaging treatment of this DNA, and
- securement of this damaged DNA to a sensitized solid support, or

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- preparation of DNA,
- securement of this undamaged DNA on a sensitized solid support, and
- damaging treatment of the DNA, or
- treatment of cells,

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- lysis and capture of cellular DNA,
- characterized in that it consists in:

- causing to act on this damaged DNA a composition comprising at least one cellular extract or a purified protein having at least one activity for recognizing and/or repairing damage, and

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- detecting on the damaged DNA, directly or indirectly, the presence of recognition and/or repair proteins of the damage produced,

- all the steps being separated by at least one washing step.

The invention also relates to the materials for practicing this process.

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